

**SPECIALIZED HOLLOW FIBER MEMBRANES FOR IN-VIVO  
PLASMAPHERESIS AND ULTRAFILTRATION**

Abstract of the Disclosure

5           An *in-vivo* plasmapheresis and/or *in-vivo* ultrafiltration membrane comprises a plurality of elongated hollow fibers each fiber having an interior lumen extending along the fiber length, the fiber wall having a plurality of zones between the inner and outer wall surfaces, each of the zones having a mass density different than the mass density of an adjacent zone. The fiber wall is characterized by having a lower mass density zone  
10 at the inner wall surface and a higher mass density zone at the outer wall surface.

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